

WEST**Freeform Search****Database:**

US Patents Full-Text Database
 US Pre-Grant Publication Full-Text Database
 JPO Abstracts Database
 EPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Term:

11 with 12

Display: **Documents in Display Format:** **Starting with Number** **Generate:** ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

Search

Clear

Help

Logout

Interrupt

Main Menu

Show S Numbers

Edit S Numbers

Preferences

Cases

Search History**DATE:** Tuesday, June 24, 2003 [Printable Copy](#) [Create Case](#)**Set Name Query**

side by side

Hit Count Set Name

result set

*DB=USPT,PGPB; PLUR=YES; OP=AND*L3 11 with 12

5

L3L2 lipofect\$ or electroporat\$ or bombardment or ballistic

53485

L2L1 schistosom\$ or parasite or trematode

14503

L1

END OF SEARCH HISTORY

[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 5 of 5 returned.**

☐ 1. [20020182223](#). 30 May 01. 05 Dec 02. Method of rapidly generating double-stranded RNA and methods of use thereof. LaCount, Douglas J., et al. 424/191.1; 435/258.1 435/320.1 A61K039/002 C12N015/74 C12N001/10.

☐ 2. [5976553](#). 31 May 96; 02 Nov 99. Transfection and genetic manipulations in obligate intracellular parasites. Kim; Kami, et al. 424/271.1; 424/273.1 435/258.1 435/258.4 435/476 435/6 435/69.1 514/44. A61K039/002 C12Q001/68 C12P021/02.

☒ 3. [5643718](#). 04 Nov 93; 01 Jul 97. Transfection and genetic manipulations in obligate intracellular parasites. Kim; Kami, et al. 435/6; 435/258.1 435/477 435/69.1. C12Q001/68 C12N001/11 C12N015/64 C12P021/02.

☐ 4. [4768071](#). 13 Oct 81; 30 Aug 88. Ballistic transport MESFET. Etienne; Patrick, et al. 257/27; 257/283 257/E29.05 257/E29.089 257/E29.318. H01L029/80 H01L029/08 H01L029/56.

☐ 5. [3943453](#). 20 Feb 74; 09 Mar 76. High voltage rapid switching circuit. Melchior; Gerald. 327/365; 327/374. H03K017/00 G11C011/26.

[Generate Collection](#)[Print](#)

Terms	Documents
11 with 12	5

[Previous Page](#)[Next Page](#)

=> d his

(FILE 'HOME' ENTERED AT 17:15:41 ON 24 JUN 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 17:16:20 ON 24 JUN 2003

L1 444 S TRANSGEN? (8A) (PARASITE OR WORM OR SCHISTOSOME OR TREMATODE)
L2 157338 S ELECTROPORATION OR LIPOFECT? OR BOMBARDMENT
L3 6 S L1(S)L2
L4 13 S L1 AND L2
L5 8 DUP REM L4 (5 DUPLICATES REMOVED)
L6 4 DUP REM L3 (2 DUPLICATES REMOVED)

=> d bib ab 1-8 15

L5 ANSWER 1 OF 8 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 2003:15051 BIOSIS
DN PREV200300015051

TI Characterisation of the cysteine protease ER60 in transgenic *Schistosoma mansoni* larvae.

AU Wipperfsteg, Volker; Kapp, Katja; Kunz, Werner; Grevelding, Christoph G.
(1)

CS (1) Institut fuer Genetik, Universitaetsstrasse 1, 40225, Duesseldorf, Germany: greveld@uni-duesseldorf.de Germany

SO International Journal for Parasitology, (September 2002, 2002) Vol. 32, No. 10, pp. 1219-1224. print.
ISSN: 0020-7519.

DT Article

LA English

AB Proteinases have been found to play important roles in parasites. They are involved in developmental processes and facilitate invasion of host tissues as well as the digestion of host molecules for nutrition. The cysteine protease ER60 from *Schistosoma mansoni*, originally characterised in adults to be expressed in excretory organs, was analysed in larval stages. Transcripts were found in miracidia, in vitro generated mother sporocysts and cercariae. After cloning the promoter and terminator of the ER60 gene, a transformation vector was constructed containing the green fluorescent protein reporter gene flanked by the regulatory elements. The ER60-green fluorescent protein vector was used for transfection experiments of COS-7 cells demonstrating the functionality of the promoter in the heterologous system. To analyse the expression pattern of ER60-green fluorescent protein in larval *S. mansoni*, in vitro generated mother sporocysts were transformed by particle **bombardment**, a method which allows gene transfer into **schistosomes**. Molecular analyses demonstrated transcription and translation of the **transgene**. Furthermore, confocal laser scanning microscopy revealed ER60-induced green fluorescent protein fluorescence within the larvae. Inside primary sporocysts, tissue-specific activity was localised in the gland cells, protonephridia and several cytons. These results suggest that ER60 is expressed in the ES system of larvae and, amongst other functions, may play a role in penetration and migration processes.

L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2
AN 2002:122346 CAPLUS
DN 137:104396

TI HSP70-controlled GFP expression in transiently transformed schistosomes
AU Wipperfsteg, Volker; Kapp, Katja; Kunz, Werner; Jackstadt, W. Peter; Zahner, Horst; Grevelding, Christoph G.

CS Genetic Parasitology and Center for Biological and Medical Research, Institute for Genetics, Heinrich-Heine-University, Dusseldorf, D-40225, Germany

SO Molecular and Biochemical Parasitology (2002), 120(1), 141-150
CODEN: MBIPDP; ISSN: 0166-6851

PB Elsevier Science Ireland Ltd.
DT Journal
LA English

AB Among the parasitic helminths schistosomes are of high medical and economic importance. Despite of the world-wide relevance of this parasite, very little is known about the cellular mechanisms controlling its development and concerning the host-parasite interaction. Within the last decade a great effort has been made in this blood fluke to identify genes which play important roles during these processes. However, mol. anal. was limited by the fact, that neither function nor regulation of candidate genes could be investigated in this organism due to the lack of transformation protocols. Here, we present the strategy of ballistic gene transfer to introduce and characterize **transgenes** in different **schistosome** life stages. As a transformation vector, the heat shock protein 70 (hsp70) gene promoter and terminator from *Schistosoma mansoni* were cloned and fused to the green fluorescent protein (GFP) reporter gene. In a first attempt, the hsp70-GFP vector was successfully tested in a eukaryotic cell line. Thereafter, adult male schistosomes and sporocysts were transformed with this vector, and GFP expression was demonstrated using mol. and microscopical methods. PCR, reverse transcriptase-polymerase chain reaction (RT-PCR) and Western blot analyses confirmed the presence, transcription and translation of the transgene in adults. Confocal laser scanning microscopy revealed GFP-activity at various sites along the surface of the worms after hs induction and within sporocysts. These results suggest diverse roles for hsp70 during the development of schistosomes. Furthermore, the results demonstrate the feasibility of this method and open the perspective to analyze a variety of mol. functions in schistosomes.

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 2000:384463 CAPLUS
DN 133:39069

TI Use of **transgenic parasites** for introduction and expression of foreign genes in animals

IN Hamburger, Joseph; Laban, Avraham

PA Yissum Research Development Company of the Hebrew University of Jerusalem, Israel

SO PCT Int. Appl., 90 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000032804	A1	20000608	WO 1999-IL651	19991201
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRAI US 1998-201850 A 19981201

AB A eukaryotic diploid multicellular **parasite** transformed with a **transgene** is disclosed. A method of providing a eukaryotic host with a protein including the step of infecting the eukaryotic host with a eukaryotic diploid parasite transformed with a polynucleotide sequence encoding the protein is further disclosed. Thus, **transgenic Schistosoma mansoni** eggs were prep'd. by **electroporation**. The GFP gene was introduced into the GST gene or into the SM1-7 repetitive

DNA sequence by homologous recombination. The GST promoter was used to drive GFP gene expression. Snails were infected with miracidia produced from the eggs. Mice were infected with single-sex cercariae produced by the snails. **Transgenic** adult **worms** developed in the mice.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 8 MEDLINE
AN 1998418770 MEDLINE
DN 98418770 PubMed ID: 9747974
TI A cell cycle model for the tachyzoite of *Toxoplasma gondii* using the Herpes simplex virus thymidine kinase.
AU Radke J R; White M W
CS Department of Veterinary Molecular Biology, Montana State University, Bozeman 59717-3610, USA.
SO MOLECULAR AND BIOCHEMICAL PARASITOLOGY, (1998 Aug 1) 94 (2) 237-47.
Journal code: 8006324. ISSN: 0166-6851.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199812
ED Entered STN: 19990115
Last Updated on STN: 19990115
Entered Medline: 19981222
AB *Toxoplasma gondii* (RH strain) tachyzoites were transfected with a plasmid containing a fusion of the chloramphenicol acetyl transferase and the Herpes simplex virus-2 thymidine kinase coding regions and **transgenic parasites** obtained by chloramphenicol selection. CTK11, a single high expressing clone was isolated based on immunofluorescence and contained approximately five integrated copies of the fusion sequence. Lysates prepared from this clone displayed thymidine kinase activity of 2.9 pmol min⁻¹ microg⁻¹ protein, whereas thymidine kinase activity was not detected in lysates from the parental RH strain. Growth of CTK11 tachyzoites was fully inhibited in 5 microM ganciclovir and thymidine and in 2.5 microM 5-bromo-2'-deoxyuridine. While the inhibitory effects of ganciclovir were lethal, low concentrations of thymidine (10 microM) were largely reversible. Asynchronously growing CTK11 tachyzoites were found to contain major G1 (1 N) and S phase (1 N+) distributions as determined by relative propidium iodide fluorescence and with reference to the haploid (1 N) DNA content of a *T. gondii* sporozoite population. CTK11 tachyzoites blocked 4 h in 10 microM thymidine exhibited mean fluorescence consistent with a 1 N complement of DNA indicating growth was arrested in G1. Following the removal of excess thymidine, parasites immediately entered S phase, thus confirming the late G1 block. Parasites with a 2 N complement of DNA (G2 + M) first appear at 2 h post-release, while 1 N (G1) parasites re-appear at 3 h suggesting the length of S phase is < or = 2 h and that of G2 + M is < or = 1 h. Within 7 h, parasites had transited G2 + M and much of G1 and re-entered S of the subsequent cell cycle--a time consistent with the doubling of these parasites in culture. Thus, the CTK11 tachyzoite cell cycle is similar to those of higher eukaryotic cells and is characterized by major G1 and S phases and a relatively short G2 + M.

L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 1998:42755 CAPLUS
DN 128:163364
TI Transgenic fertile japonica rice plants expressing a modified cryIA(b) gene resistant to yellow stem borer
AU Wu, C.; Fan, Y.; Zhang, C.; Oliva, N.; Datta, S. K.
CS Plant Breeding Genetics Biochemistry Div., International Rice Research Inst., Manila, 1099, Philippines
SO Plant Cell Reports (1997), 17(2), 129-132

CODEN: PCRPD8; ISSN: 0721-7714

PB Springer-Verlag

DT Journal

LA English

AB The japonica rice variety Taipei 309 was co-transformed by particle **bombardment** of immature embryo-derived embryogenic calli with a modified δ -endotoxin gene cryIA(b) of *Bacillus thuringiensis* (Bt) under the control of the rice Actin1 promoter, and the hygromycin resistance gene, hph driven by the CaMV35S promoter. Selected transgenic rice plants showed enhanced insecticidal activity against yellow stem borer (*Scirpophaga incertulas*), with mortality rates reaching up to 100% in a bioassay with cut stems. Introduction and expression of the Actin1 promoter-Bt gene into rice provides japonica rice germplasm resistant to insect attack.

L5 ANSWER 6 OF 8 MEDLINE

DUPLICATE 3

AN 1998071021 MEDLINE

DN 98071021 PubMed ID: 9405195

TI Tagging genes and trapping promoters in *Toxoplasma gondii* by insertional mutagenesis.

AU Roos D S; Sullivan W J; Striepen B; Bohne W; Donald R G

CS Department of Biology, University of Pennsylvania, 415 South University Avenue, Philadelphia, Pennsylvania, 19104-6018, USA.. droos@sas.upenn.edu

SO METHODS, (1997 Oct) 13 (2) 112-22.

Journal code: 9426302. ISSN: 1046-2023.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199801

ED Entered STN: 19980129

Last Updated on STN: 19980129

Entered Medline: 19980115

AB Plasmid vectors that incorporate sequence elements from the dehydrofolate reductase-thymidylate synthase (DHFR-TS) locus of *Toxoplasma gondii* integrate into the parasite genome with remarkably high frequency (>1% of transfected parasites). These vectors may-but need not-include mutant DHFR-TS alleles that confer pyrimethamine resistance to **transgenic parasites**. Large genomic constructs integrate at the endogenous locus by homologous recombination, but cDNA-derived sequences lacking long stretches of contiguous genomic DNA (due to intron excision) typically integrate into chromosomal DNA by nonhomologous recombination. Nonhomologous integration occurs effectively at random; and coupled with the high frequency of transformation, this allows a large fraction of the parasite genome to be tagged in a single **electroporation** cuvette. Genomic tagging permits insertional mutagenesis studies conceptually analogous to transposon mutagenesis in bacteria, yeast, *Drosophila*, etc. In theory (and, thus far, in practice), this allows identification of any gene whose inactivation is not lethal to the haploid tachyzoite form of *T. gondii* and for which a suitable selection or screen is available. Transformation vectors can be engineered to facilitate rescue of the tagged locus and to include a variety of reporters or selectable markers. Genetic strategies are also possible, using reporters whose function can be assayed by metabolic, visual, or immunological screens to "trap" genes that are activated (or inactivated) under various conditions of interest.
Copyright 1997 Academic Press.

L5 ANSWER 7 OF 8 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 4

AN 1997:254755 BIOSIS

DN PREV199799553958

TI Stable transfection of the blood stages of malarial parasites.

AU Waters, A. P.; Van Dijk, M. R.; Ramesar, J.; Janse, C. J.

CS Dep. Parasitol., Univ. Leiden, Postbus 9605, 2300 RC Leiden Netherlands

SO Annals of Tropical Medicine and Parasitology, (1997) Vol. 91, No. SUPPL. 1, pp. S63-S67.
 ISSN: 0003-4983.

DT Journal; Article

LA English

AB Genetic manipulation of malarial parasites is not only essential if the complex biology of this group of pathogens is to be understood but also has implications for both vaccine and drug development. The stable, drug selectable, genetic transformation of the clinically relevant, intra-erythrocytic stages of a malarial parasite has been achieved. This was possible using a plasmid transfection vector carrying the gene locus encoding a drug-resistant form of the bifunctional enzyme dihydrofolate reductase-thymidylate synthase (DHFR/TS) from the rodent parasite, Plasmodium berghei. Derivatives of this vector were introduced into merozoites of P. berghei by **electroporation** and parasites selected for successful transformation in the rodent host on the basis of resistance to pyrimethamine. In five, separate experiments, drug-resistant parasite populations containing the transfection vector were obtained (T1-T5). Genetic analysis of resistant parental populations and clones demonstrated that the appropriate plasmids could be found in a circular, unrearranged form that replicated episomally to an observed maximum copy number of 15 copies/cell. The plasmids were not evenly distributed in the population. The DHFR/TS gene on the plasmid was expressed in a dose-dependent manner in the transfected parasites, indicating that the parasite is capable of supporting expression of multiple copies of genes normally present as a single copy. This last point has implications for the use of promoters of gene transcription from the **parasite**, in the future, for the construction of **transgenic parasites**

L5 ANSWER 8 OF 8 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1996:54423 BIOSIS

DN PREV199698626558

TI Stable DNA transformation of C. elegans using **electroporation**.

AU O'Brien, C.; Varkey, J.

CS Dep. Biol. Sci., Humboldt State Univ., Arcata, CA 95521 USA

SO Molecular Biology of the Cell, (1995) Vol. 6, No. SUPPL., pp. 443A.
 Meeting Info.: Thirty-fifth Annual Meeting of the American Society for Cell Biology Washington, D.C., USA December 9-13, 1995
 ISSN: 1059-1524.

DT Conference

LA English

=>

=> d his

(FILE 'HOME' ENTERED AT 17:15:41 ON 24 JUN 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 17:16:20 ON 24 JUN 2003

L1 444 S TRANSGEN?(8A) (PARASITE OR WORM OR SCHISTOSOME OR TREMATODE)
L2 157338 S ELECTROPORATION OR LIPOFECT? OR BOMBARDMENT
L3 6 S L1(S)L2
L4 13 S L1 AND L2
L5 8 DUP REM L4 (5 DUPLICATES REMOVED)
L6 4 DUP REM L3 (2 DUPLICATES REMOVED)
L7 154241 S BOMBARDMENT OR BALLISTIC
L8 152 S SHISTOSOM?
L9 0 S L7(S)L8
L10 0 S L7 AND L8
L11 59438 S SCHISTOSOM?
L12 24 S L2(S)L11
L13 13 DUP REM L12 (11 DUPLICATES REMOVED)

=> d au ti so 1-13 l13

L13 ANSWER 1 OF 13 MEDLINE DUPLICATE 1
AU Wippersteg Volker; Kapp Katja; Kunz Werner; Grevelding Christoph G
TI Characterisation of the cysteine protease ER60 in transgenic Schistosoma
mansoni larvae.
SO INTERNATIONAL JOURNAL FOR PARASITOLOGY, (2002 Sep) 32 (10) 1219-24.
Journal code: 0314024. ISSN: 0020-7519.

L13 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS
AU Wippersteg, Volker; Kapp, Katja; Kunz, Werner; Jackstadt, W. Peter;
Zahner, Horst; Grevelding, Christoph G.
TI HSP70-controlled GFP expression in transiently transformed schistosomes.
SO Molecular and Biochemical Parasitology (2002), 120(1), 141-150
CODEN: MBIPDP; ISSN: 0166-6851

L13 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS
IN Hamburger, Joseph; Laban, Avraham
TI Use of transgenic parasites for introduction and expression of foreign
genes in animals
SO PCT Int. Appl., 90 pp.
CODEN: PIXXD2

L13 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS
IN Lin, Jiaojiao; Wu, Xiangfu; Liu, Jinming; Cai, Xuezhong; Cai, Youmin; Shi,
Fuhui; Shen, Wei; Fu, Zhiqiang
TI Cloning of Japanese schistosome fatty acid-binding protein cDNA and its
expression using bombyx mori for the production of its fusion protein used
as vaccines
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 12 pp.
CODEN: CNXXEV

L13 ANSWER 5 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
2
AU Haslam, Stuart M.; Coles, Gerald C.; Morris, Howard R.; Dell, Anne (1)
TI Structural characterization of the N-glycans of Dictyocaulus viviparus:
Discovery of the Lewisx structure in a nematode.
SO Glycobiology, (Feb., 2000) Vol. 10, No. 2, pp. 223-229.
ISSN: 0959-6658.

L13 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 3
AU Davis, Richard E.; Parra, Angelica; LoVerde, Philip T.; Ribeiro, Eugenia;
Glorioso, Gina; Hodgson, Scott

TI Transient expression of DNA and RNA in parasitic helminths by using
 particle bombardment
 SO Proceedings of the National Academy of Sciences of the United States of
 America (1999), 96(15), 8687-8692
 CODEN: PNASA6; ISSN: 0027-8424.

L13 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS
 AU Hota-Mitchell, Sheela; Clarke, Michael W.; Podesta, R. B.; Dekaban,
 Gregory A.
 TI Recombinant vaccinia viruses and gene gun vectors expressing the large
 subunit of Schistosoma mansoni calpain used in a murine
 immunization-challenge model
 SO Vaccine (1999), 17(11-12), 1338-1354
 CODEN: VACCDE; ISSN: 0264-410X

L13 ANSWER 8 OF 13 MEDLINE DUPLICATE 4
 AU Khoo K H; Chatterjee D; Caulfield J P; Morris H R; Dell A
 TI Structural mapping of the glycans from the egg glycoproteins of
 Schistosoma mansoni and Schistosoma japonicum: identification of novel
 core structures and terminal sequences.
 SO GLYCOBIOLOGY, (1997 Jul) 7 (5) 663-77.
 Journal code: 9104124. ISSN: 0959-6658.

L13 ANSWER 9 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 5
 AU Van Dam, Govert J. (1); Bergwerff, Aldert A.; Thomas-Oates, Jane E.;
 Rotmans, J. Peter; Kamerling, Johannes P.; Vliegthart, Johannes F. G.;
 Deelder, Andre M.
 TI The immunologically reactive O-linked polysaccharide chains derived from
 circulating cathodic antigen isolated from the human blood fluke
 Schistosoma mansoni have Lewis X as repeating unit.
 SO European Journal of Biochemistry, (1994) Vol. 225, No. 1, pp. 467-482.
 ISSN: 0014-2956.

L13 ANSWER 10 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 6
 AU LEVERY S B; WEISS J B; SALYAN M E K; ROBERTS C E; HAKOMORI S-I; MAGNANI J
 L; STRAND M
 TI CHARACTERIZATION OF A SERIES OF NOVEL FUCOSE-CONTAINING GLYCOSPHINGOLIPID
 IMMUNOGENS FROM EGGS OF SCHISTOSOMA-MANSONI.
 SO J BIOL CHEM, (1992) 267 (8), 5542-5551.
 CODEN: JBCHA3. ISSN: 0021-9258.

L13 ANSWER 11 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU PANT G; SATI O P; MIYAHARA K; KAWASAKI T
 TI SEARCH FOR MOLLUSCICIDAL AGENTS SAPONINS FROM AGAVE-CANTALA LEAVES.
 SO INT J CRUDE DRUG RES, (1987) 25 (1), 35-38.
 CODEN: IJCREE. ISSN: 0167-7314.

L13 ANSWER 12 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU GAFNER F; MSONTHI J D; HOSTETTMANN K
 TI MOLLUSCICIDAL SAPONINS FROM TALINUM-TENUISSIMUM.
 SO HELV CHIM ACTA, (1985) 68 (3), 555-558.
 CODEN: HCACAV. ISSN: 0018-019X.

L13 ANSWER 13 OF 13 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU DOMON B; HOSTETTMANN K
 TI NEW SAPONINS FROM PHYTOLACCA-DODECANDRA.
 SO HELV CHIM ACTA, (1984) 67 (5), 1310-1315.
 CODEN: HCACAV. ISSN: 0018-019X.

=> s 12 and 111

L14 53 L2 AND L11

=> dup rem l14

PROCESSING COMPLETED FOR L14

L15 30 DUP REM L14 (23 DUPLICATES REMOVED)

=> d au ti so 1-30 l15

L15 ANSWER 1 OF 30 MEDLINE DUPLICATE 1

AU Wippersteg Volker; Kapp Katja; Kunz Werner; Grevelding Christoph G

TI Characterisation of the cysteine protease ER60 in transgenic
Schistosoma mansoni larvae.

SO INTERNATIONAL JOURNAL FOR PARASITOLOGY, (2002 Sep) 32 (10) 1219-24.
Journal code: 0314024. ISSN: 0020-7519.

L15 ANSWER 2 OF 30 MEDLINE DUPLICATE 2

AU Wang Zhuo-Hua; Ye Kai; Xu Hong; Ma Hui-Wen; Tong Li-Heng; Peng Xi-Liang

TI Expression and characterization of envelope protein 2 gene of hepatitis G
virus in *Pichia pastoris*.

SO SHENG WU KUNG CH ENG HSUEH PAO, (2002 Jan) 18 (2) 187-92.
Journal code: 9426463. ISSN: 1000-3061.

L15 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 3

AU Wippersteg, Volker; Kapp, Katja; Kunz, Werner; Jackstadt, W. Peter;
Zahner, Horst; Grevelding, Christoph G.

TI HSP70-controlled GFP expression in transiently transformed
schistosomes

SO Molecular and Biochemical Parasitology (2002), 120(1), 141-150
CODEN: MBIPDP; ISSN: 0166-6851

L15 ANSWER 4 OF 30 MEDLINE

AU Huang H H; Tsai P L; Khoo K H

TI Selective expression of different fucosylated epitopes on two distinct
sets of **Schistosoma** mansoni cercarial O-glycans: identification
of a novel core type and Lewis X structure.

SO GLYCOBIOLOGY, (2001 May) 11 (5) 395-406.
Journal code: 9104124. ISSN: 0959-6658.

L15 ANSWER 5 OF 30 MEDLINE

AU Khoo K H; Huang H H; Lee K M

TI Characteristic structural features of **schistosome** cercarial
N-glycans: expression of Lewis X and core xylosylation.

SO GLYCOBIOLOGY, (2001 Feb) 11 (2) 149-63.
Journal code: 9104124. ISSN: 0959-6658.

L15 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2003 ACS

IN Selby, Mark; Goldbeck, Cheryl; Pertile, Terry; Walsh, Robert; Liu,
Margaret A.; Ulmer, Jeffery

TI Electrically-mediated enhancement of DNA vaccine immunity and efficacy in
vivo

SO PCT Int. Appl., 42 pp.
CODEN: PIXXD2

L15 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2003 ACS

IN Hamburger, Joseph; Laban, Avraham

TI Use of transgenic parasites for introduction and expression of foreign
genes in animals

SO PCT Int. Appl., 90 pp.
CODEN: PIXXD2

L15 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2003 ACS

IN Lin, Jiaojiao; Wu, Xiangfu; Liu, Jinming; Cai, Xuezhong; Cai, Youmin; Shi,
Fuhui; Shen, Wei; Fu, Zhiqiang

TI Cloning of Japanese **schistosome** fatty acid-binding protein cDNA
and its expression using *bombyx mori* for the production of its fusion

- protein used as vaccines
- SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 12 pp.
CODEN: CNXXEV
- L15 ANSWER 9 OF 30 MEDLINE DUPLICATE 4
AU Dai W; Huangfu Y; Zheng B
TI Construction of recombinant BCG bearing *Schistosoma japonicum* 26Ku antigen gene and study on its immunogenicity on mice.
SO CHUNG-HUA I HSUEH TSA CHIH [CHINESE MEDICAL JOURNAL], (2000 Jun) 80 (6) 407-10.
Journal code: 7511141. ISSN: 0376-2491.
- L15 ANSWER 10 OF 30 MEDLINE DUPLICATE 5
AU Haslam S M; Coles G C; Morris H R; Dell A
TI Structural characterization of the N-glycans of *Dictyocaulus viviparus*: discovery of the Lewis(x) structure in a nematode.
SO GLYCOBIOLOGY, (2000 Feb) 10 (2) 223-9.
Journal code: 9104124. ISSN: 0959-6658.
- L15 ANSWER 11 OF 30 MEDLINE
AU Abdel-Gawad M M; El-Amin S M; Ohigashi H; Watanabe Y; Takeda N; Sugiyama H; Kawanaka M
TI Molluscicidal saponins from *Anagallis arvensis* against *schistosome* intermediate hosts.
SO JAPANESE JOURNAL OF INFECTIOUS DISEASES, (2000 Feb) 53 (1) 17-9.
Journal code: 100893704. ISSN: 1344-6304.
- L15 ANSWER 12 OF 30 MEDLINE DUPLICATE 6
AU Davis R E; Parra A; LoVerde P T; Ribeiro E; Glorioso G; Hodgson S
TI Transient expression of DNA and RNA in parasitic helminths by using particle bombardment.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1999 Jul 20) 96 (15) 8687-92.
Journal code: 7505876. ISSN: 0027-8424.
- L15 ANSWER 13 OF 30 CAPLUS COPYRIGHT 2003 ACS
AU Hota-Mitchell, Sheela; Clarke, Michael W.; Podesta, R. B.; Dekaban, Gregory A.
TI Recombinant vaccinia viruses and gene gun vectors expressing the large subunit of *Schistosoma mansoni* calpain used in a murine immunization-challenge model
SO Vaccine (1999), 17(11-12), 1338-1354
CODEN: VACCDE; ISSN: 0264-410X
- L15 ANSWER 14 OF 30 SCISEARCH COPYRIGHT 2003 THOMSON ISI
AU Yoshino T P (Reprint); Wu X J; Liu H D
TI Transfection and heat-inducible expression of molluscan promoter-luciferase reporter gene constructs in the *Biomphalaria glabrata* embryonic snail cell line
SO AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE, (SEP 1998) Vol. 59, No. 3, pp. 414-420.
Publisher: AMER SOC TROP MED & HYGIENE, 8000 WESTPARK DRIVE SUITE 130, MCLEAN, VA 22101.
ISSN: 0002-9637.
- L15 ANSWER 15 OF 30 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC..
AU Halkes, Koen M.; Vermeer, Henricus J.; Slaghek, Ted M.; Van Hooft, Peter A. V.; Loof, Arnoud; Kamerling, Johannes P. (1); Vliegenthart, Johannes F. G.
TI Preparation of spacer-containing di-, tri-, and tetrasaccharide fragments of the circulating anodic antigen of *Schistosoma mansoni* for diagnostic purposes.
SO Carbohydrate Research, (June, 1998) Vol. 309, No. 2, pp. 175-188.
ISSN: 0008-6215.

- L15 ANSWER 16 OF 30 MEDLINE DUPLICATE 7
 AU Khoo K H; Chatterjee D; Caulfield J P; Morris H R; Dell A
 TI Structural mapping of the glycans from the egg glycoproteins of **Schistosoma mansoni** and **Schistosoma japonicum**: identification of novel core structures and terminal sequences.
 SO GLYCOBIOLOGY, (1997 Jul) 7 (5) 663-77.
 Journal code: 9104124. ISSN: 0959-6658.
- L15 ANSWER 17 OF 30 MEDLINE
 AU Khoo K H; Chatterjee D; Caulfield J P; Morris H R; Dell A
 TI Structural characterization of glycosphingolipids from the eggs of **Schistosoma mansoni** and **Schistosoma japonicum**.
 SO GLYCOBIOLOGY, (1997 Jul) 7 (5) 653-61.
 Journal code: 9104124. ISSN: 0959-6658.
- L15 ANSWER 18 OF 30 MEDLINE
 AU Cheng J; Huangfu Y; Feng Z; Liang J; Xiao H
 TI Expression of foreign gene in mycobacterium regulated by human Mycobacterium tuberculosis heat shock protein 70 promoter.
 SO JOURNAL OF TONGJI MEDICAL UNIVERSITY, (1997) 17 (4) 193-9.
 Journal code: 8605495. ISSN: 0257-716X.
- L15 ANSWER 19 OF 30 SCISEARCH COPYRIGHT 2003 THOMSON ISI
 AU KAWAKAMI Y; NAKAMURA K; KOJIMA H; SUZUKI M; INAGAKI F; SUZUKI A; IKUTA J; UCHIDA A; MURATA Y; TAMAI Y (Reprint)
 TI NOVEL FUCOSYLTETRAHEXOSYLCERAMIDE IN PLEROCERCOIDS OF THE PARASITE SPIROMETRA-ERINACEI
 SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (01 AUG 1996) Vol. 239, No. 3, pp. 905-911.
 ISSN: 0014-2956.
- L15 ANSWER 20 OF 30 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU Lardans, Vinca (1); Boulo, Viviane; Duclermortier, Pascal; Serra, Esteban; Mialhe, Eric; Capron, Andre; Dissous, Colette
 TI DNA transfer in a Biomphalaria glabrata embryonic cell line by DOTAP lipofection.
 SO Parasitology Research, (1996) Vol. 82, No. 6, pp. 574-576.
 ISSN: 0932-0113.
- L15 ANSWER 21 OF 30 MEDLINE
 AU Ekabo O A; Farnsworth N R; Henderson T O; Mao G; Mukherjee R
 TI Antifungal and molluscicidal saponins from Serjania salzmanniana.
 SO JOURNAL OF NATURAL PRODUCTS, (1996 Apr) 59 (4) 431-5.
 Journal code: 7906882. ISSN: 0163-3864.
- L15 ANSWER 22 OF 30 SCISEARCH COPYRIGHT 2003 THOMSON ISI
 AU WAINE G J (Reprint); MCMANUS D P
 TI NUCLEIC-ACIDS - VACCINES OF THE FUTURE
 SO PARASITOLOGY TODAY, (MAR 1995) Vol. 11, No. 3, pp. 113-116.
 ISSN: 0169-4758.
- L15 ANSWER 23 OF 30 MEDLINE DUPLICATE 8
 AU Van Dám G J; Bergwerff A A; Thomas-Oates J E; Rotmans J P; Kamerling J P; Vliegenthart J F; Deelder A M
 TI The immunologically reactive O-linked polysaccharide chains derived from circulating cathodic antigen isolated from the human blood fluke **Schistosoma mansoni** have Lewis x as repeating unit.
 SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1994 Oct 1) 225 (1) 467-82.
 Journal code: 0107600. ISSN: 0014-2956.
- L15 ANSWER 24 OF 30 SCISEARCH COPYRIGHT 2003 THOMSON ISI
 AU KAWAKAMI Y; NAKAMURA K; KOJIMA H; SUZUKI M; INAGAKI F; SUZUKI A; SONOKI S; UCHIDA A; MURATA Y; TAMAI Y (Reprint)

TI A NOVEL FUCOSYLATED GLYCOSPHINGOLIPID WITH A GAL-BETA-1-4GLC-BETA-1-3GAL
 SEQUENCE IN PLEROCERCOIDS OF THE PARASITE, SPIROMETRA-ERINACEI
 SO JOURNAL OF BIOCHEMISTRY, (NOV 1993) Vol. 114, No. 5, pp. 677-683.
 ISSN: 0021-924X.

L15 ANSWER 25 OF 30 MEDLINE DUPLICATE 9
 AU Lavery S B; Weiss J B; Salyan M E; Roberts C E; Hakomori S; Magnani J L;
 Strand M
 TI Characterization of a series of novel fucose-containing glycosphingolipid
 immunogens from eggs of *Schistosoma mansoni*.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1992 Mar 15) 267 (8) 5542-51.
 Journal code: 2985121R. ISSN: 0021-9258.

L15 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 10
 AU Pant, G.; Sati, O. P.; Miyahara, K.; Kawasaki, T.
 TI Search for molluscicidal agents: saponins from Agave cantala leaves
 SO International Journal of Crude Drug Research (1987), 25(1), 35-8
 CODEN: IJCREE; ISSN: 0167-7314

L15 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2003 ACS
 AU Suter, R.; Tanner, M.; Borel, C.; Hostettmann, K.; Freyvogel, T. A.
 TI Laboratory and field trials at Ifakara (Kilombero District, Tanzania) on
 the plant molluscicide Swartzia madagascariensis
 SO Acta Tropica (1986), 43(1), 69-83
 CODEN: ACTRAQ; ISSN: 0001-706X

L15 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 11
 AU Gafner, Frank; Msonthi, Jerome D.; Hostettmann, Kurt
 TI Phytochemistry of African medicinal plants: Part 3. Molluscicidal
 saponins from Talinum tenuissimum Dinter
 SO Helvetica Chimica Acta (1985), 68(3), 555-8
 CODEN: HCACAV; ISSN: 0018-019X

L15 ANSWER 29 OF 30 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU DOMON B; HOSTETTMANN K
 TI NEW SAPONINS FROM PHYTOLACCA-DODECANDRA.
 SO HELV CHIM ACTA, (1984) 67 (5), 1310-1315.
 CODEN: HCACAV. ISSN: 0018-019X.

L15 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2003 ACS
 AU Domon, Bruno; Hostettmann, Kurt
 TI Saponins with molluscicidal properties from *Lonicera nigra* L
 SO Helvetica Chimica Acta (1983), 66(2), 422-8
 CODEN: HCACAV; ISSN: 0018-019X